

1. A folded type mobile communication terminal apparatus comprising:

5           a main display unit provided on an inner  
surface exposed when said mobile communication  
terminal is in an opened state;

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        a driver section which drives said main display
unit and said external display unit;

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2. The folded type mobile communication terminal according to claim 1, wherein said control circuit automatically controls said driver section such that said data relating to the reception of said call or  
5 said e-mail is displayed on said main display unit in said opened state of said mobile communication

terminal and on said external display unit in said closed state of said mobile communication terminal, in response to the reception of said call or said e-mail.

3. The folded type mobile communication terminal according to claim 2, wherein said control circuit controls said driver section such that a symbol indicative of the reception of said call is displayed on said main display unit in said opened state of said mobile communication terminal and on said external display unit in said closed state of said mobile communication terminal in place of said data relating to the reception of said call, when a predetermined time period passes away without a replay to said received call by a user after the display of said data relating to the reception of said call or said e-mail is started.

4. The folded type mobile communication terminal according to claims 3, wherein said predetermined time period is variable and can be set by the user.

5. The folded type mobile communication terminal according to claim 1, further comprising a memory, and wherein said control circuit stores said data of said received call which is not replied by a user in said memory as non-replied call data.

5            wherein said control circuit reads out said  
non-reply call data from said memory in response to a  
non-replied call data display instruction inputted  
from said outer key section, and controls said driver  
section such that said read-out non-reply call data  
0 are displayed on said main display unit in said opened  
state of said mobile communication terminal and on  
said external display unit in said closed state of  
said mobile communication terminal.

7. The folded type mobile communication terminal according to claim 6, wherein said control circuit controls said driver section such that said read-out non-reply call data are scrolled and displayed on said main display unit in said opened state of said mobile communication terminal and on said external display unit in said closed state of said mobile communication terminal, in response to a scroll instruction inputted from said outer key section.

8. The folded type mobile communication terminal according to claim 6, wherein said control circuit controls said driver section such that said read-out

9. The folded type mobile communication terminal according to claim 1, further comprising an outer key section provided on the outer surface of said mobile communication terminal in said closed state, and

5 wherein said control circuit controls said driver section in response to an e-mail display instruction inputted from said outer key section, such that said data of said e-mail is displayed on said main display unit in said opened state of said mobile communication terminal and on said external display

10 unit in said closed state of said mobile communication terminal.

10. The folded type mobile communication terminal according to claim 1, wherein said data of said received call includes at least one of a phone number of said counter end, a name of said counter end, and a reception date and time of said received call.

11. The folded type mobile communication terminal

wherein said control circuit extracts said name  
5 from said memory based on said phone number contained  
in said received call and drives said driver section  
such that said extracted name is displayed.

13. The folded type mobile communication terminal according to claim 12, further comprising a memory which stores sets of a name and mail address of said transmitter, and

14. The folded type mobile communication terminal according to claim 1, further comprising:

a state detecting unit which detects whether

said mobile communication terminal is in said opened  
5 state or in said closed state, and generates an opened  
state detection signal when said mobile communication  
terminal is in said opened state and a closed state  
detection signal when said mobile communication  
terminal is in said closed state, and

10 wherein said control circuit drives said driver  
section such that a display operation is carried out  
by said main display unit based on said opened state  
detection signal, and by said external display unit  
based on said closed state detection signal.

15. The folded type mobile communication terminal  
according to claim 14, wherein said drive section  
comprises:

a first driver for said main display unit; and  
5 a second driver for said external display unit,  
and wherein

said control circuit drives said first driver  
based on said opened state detection signal and said  
second driver based on said closed state detection  
10 signal.

16. The folded type mobile communication terminal  
according to claim 14, wherein said drive section  
comprises:

a driver for said main display unit and said

5 external display unit;

a first switch provided between said driver and said main display unit to connect said driver to said main display unit based on said opened state detection signal; and

10 a second switch provided between said driver and said external display unit to connect said driver to said external display unit based on said closed state detection signal, and

said control circuit carries out the display  
15 control to said driver.

17. The folded type mobile communication terminal according to claim 16, wherein the number of digits displayed on said main display unit is same as the number of digits displayed on said external display  
5 unit.

18. A method of using a folded type mobile communication terminal apparatus, comprising the steps of:

(a) receiving a call or an e-mail from a  
5 counter end;

(b) detecting whether said mobile communication terminal is in an opened state or in a closed state; and

(c) carrying out a display control such that

10 data relating to the reception of said call or said e-mail and data of said received call or e-mail are displayed on a main display unit based on said opened state detection signal and on a external display unit based on said closed state detection signal, and

15 wherein said main display unit is provided on an inner surface exposed when said mobile communication terminal is in said opened state, and said external display unit is provided on an outer surface exposed when said mobile communication

20 terminal is in said closed state.

19. The method according to claim 18, wherein said (c) carrying out step comprises the steps of:

determining whether said mobile communication terminal is in said closed state or in said opened

5 state, based on the detecting result of said (b) detecting step;

driving a first driver for said main display unit when said mobile communication terminal is in said opened state; and

10 driving a second driver for said external display unit when said mobile communication terminal is in said closed state.

20. The method according to claim 18, wherein said (c) carrying out step comprises the steps of:



driving a driver for said main display unit and  
said external display unit for the display control;

5 connecting said driver to said main display  
unit when said mobile communication terminal is in  
said opened state; and

connecting said driver to said external display  
unit when said mobile communication terminal is in  
10 said closed state.

21. The method according to claim 18, wherein said  
(c) carrying out step comprises the step of:

carrying out the display control such that a  
symbol indicative of the reception of said call or  
5 said e-mail is displayed on said main display unit  
displays in said opened state of said mobile  
communication terminal and on said external display  
unit in said closed state of said mobile communication  
terminal in place of said data relating to the  
10 reception of said call, when a predetermined time  
period passes away without a replay to said received  
call by a user after the display of said data relating  
to the reception of said call or said e-mail is  
started.

22. The method according to claim 21, wherein said  
(c) carrying out step comprises the steps of:

storing said data of said received call which

is not replied by a user in a memory as non-replied  
5 call data;

reading out said non-reply call data from said  
memory in response to a non-replied call data display  
instruction inputted from an outer key section  
provided said outer surface of said mobile  
10 communication terminal in said closed state; and  
carrying out the display control such that said  
read-out non-reply call data are displayed on said  
main display unit in said opened state of said mobile  
communication terminal and on said external display  
15 unit in said closed state of said mobile communication  
terminal.

23. The method according to claim 22, wherein said  
(c) carrying out step comprises the step of:

carrying out the display control such that said  
read-out non-reply call data are scrolled and  
5 displayed on said main display unit in said opened  
state of said mobile communication terminal and on  
said external display unit in said closed state of  
said mobile communication terminal, in response to a  
scroll instruction inputted from said outer key  
10 section.

24. The method according to claim 22, wherein said  
(c) carrying out step comprises the step of:

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carrying out the display control such that said  
read-out non-reply call data are displayed one by one  
5 on said main display unit in said opened state of said  
mobile communication terminal and on said external  
display unit in said closed state of said mobile  
communication terminal, in response to a display  
switch instruction inputted from said outer key  
10 section.

25. The method according to claim 18, wherein said  
(c) carrying out step comprises the step of:

carrying out the display control in response to  
an e-mail display instruction such that said data of  
5 said e-mail is displayed on said main display unit in  
said opened state of said mobile communication  
terminal and on said external display unit in said  
closed state of said mobile communication terminal.

26. The method according to claim 18, wherein said  
data of said received call includes at least one of a  
phone number of said counter end, a name of said  
counter end, and a reception date and time of said  
5 received call.

27. The method according to claim 18, wherein said  
data of said received e-mail includes at least one of  
a mail address of a transmitter of said received e-

mail, a name of said transmitter, a reception date and  
5 time of said received call, a title of said received  
e-mail, and main sentences of said received e-mail.